IN THE CLAIMS

- (original) An electro-optic filament or fibre (10) comprising an
 elongate core (11) within a volume (12) of polarisable material,
 and an outer member (13) overlying the said volume, wherein:
 - (i) the core (11) and the outer member (13) are electrically conducting and respectively connectable to electrical potentials to generate a field (14) therebetween; and
 - (ii) the polarisable material (12) exhibits an optical effect when subjected to a said field (14) and/or a change in a said field, the said optical effect being visible or otherwise optically detectable externally of the filament or fibre (10).
 - 2.(original) A filament or fibre according to Claim 1 wherein the outer member (13) is optically transmissive and/or transflective.
 - 3. (currently amended) A filament or fibre according to any preceding claim 1 whose subcomponents are flexible, whereby the filament or fibre (10) is flexible.
 - 4. (currently amended) A filament or fibre according to any preceding claim 1 wherein the core (11) is or includes a flexible rod made of or from a material selected from the list including:

an electrically conducting metal;
an electrically conducting polymer;
a polyamide coated with a conducting material; or
combinations of two or more aforesaid materials.

- 5. (currently amended) A filament or fibre according to any of Claims 1 to 4 claim 1 wherein the outer member includes a surface adjacent which the said volume lies.
- 6. (currently amended) A filament or fibre according to any preceding claim 1 wherein the outer member surrounds the said volume.
- 7. (currently amended) A filament or fibre according to Claim 5 or Claim 6 wherein the outer member and the said volume are adhered one to the other.
- 8. (currently amended) A filament or fibre, according to Claim 6 or any claim depending from Claim 6, of generally circular cross-section, wherein the core, the said volume and the outer member are generally mutually concentric.
- 9. (currently amended) A filament or fibre according to any

preceding claim 1 wherein the volume (12) of polarisable
material includes one or more of:

- a liquid crystal material;
- a microencapsulated, polarisable ink; or
- a "twisting ball" composite.
- 10.(original) A filament or fibre according to Claim 9 wherein the volume (12) of polarisable material includes a pigment.
- 11. (original) A filament or fibre according to Claim 10 wherein the pigment is an inorganic phosphor pigment; titanium dioxide; or a mixture thereof.
- 12. (currently amended) A filament or fibre according to any preceding claim 1 wherein the resistance of the outer member (13) is inhomogeneous.
- 13. (original) A filament or fibre according to Claim 11 wherein the inhomogeneity of the resistance of the outer member (13) results from one or more of:
- (i) one or more discontinuities (13a) in the material of the outer member (13);
 - (ii) non-uniformity of the thickness (13b) of the outer member

(13);

- (iii) non-uniformity of the resistivity of the material of
 the outer member (13); or
 - (iv) non-uniformity of the composition of the outer member(13).
 - 14. (original) A filament or fibre according to any preceding claim the core (11) and/or the outer member (13) of which is operatively connected to an electrical potential that varies in dependence on the output or state of a transducer (T).
 - 15.(currently amended) A self-sustaining structure including one or more filaments or fibres (10) each according to any preceding claim claim 1.
 - 16. (original) A structure according to Claim 15 wherein the or each said fibre (10) is interlaced with a further fibre.
 - 17.(currently amended) A structure according to Claim 15 or Claim

 16 including a plurality of fibres (10) each according to any of

 Claims 1 to 13 claim 1 woven, knitted or crocheted together.
 - 18. (currently amended) A garment including one or more filaments

or fibres each according to $\frac{1}{2}$ and $\frac{1}{2}$ and $\frac{1}{2}$ and $\frac{1}{2}$ or fibres each according to $\frac{1}{2}$ and $\frac{1}{2}$ claim 15.